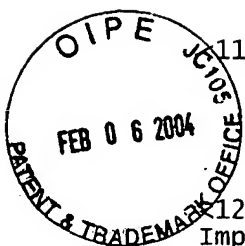


SEQUENCE LISTING



<110> Morphotek, Inc.
Grasso, Luigi
Kline, J. Bradford
Nicolaidis, Nicholas C.
Sass, Philip M.

<120> Methods for Generating Enhanced Antibody-Producing Cell Lines with Improved Growth Characteristics

<130> MOR-0241/HD0002 US

<140> 10/624,631

<141> 2003-07-21

<150> 60/397,027

<151> 2002-07-19

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Cys Leu Val Pro Ser Phe Leu Ala Glu Asp Val Gln Glu Thr Asp Thr
 20 25 30

Ser Gln Lys Asp Gln Ser Pro Ala Ser His Glu Ile Ala Thr Asn Leu
 35 40 45

Gly Asp Phe Ala Ile Ser Leu Tyr Arg Glu Leu Val His Gln Ser Asn
 50 55 60

Thr Ser Asn Ile Phe Phe Ser Pro Val Ser Ile Ala Thr Ala Phe Ala
 65 70 75 80

Met Leu Ser Leu Gly Ser Lys Gly Asp Thr His Thr Gln Ile Leu Glu
 85 90 95

Gly Leu Gln Phe Asn Leu Thr Gln Thr Ser Glu Ala Asp Ile His Lys
 100 105 110

Ser Phe Gln His Leu Leu Gln Thr Leu Asn Arg Pro Asp Ser Glu Leu
 115 120 125

Gln Leu Ser Thr Gly Asn Gly Leu Phe Val Asn Asn Asp Leu Lys Leu
 130 135 140

Val Glu Lys Phe Leu Glu Glu Ala Lys Asn His Tyr Gln Ala Glu Val
 145 150 155 160

Phe Ser Val Asn Phe Ala Glu Ser Glu Glu Ala Lys Lys Val Ile Asn
 165 170 175

Asp Phe Val Glu Lys Gly Thr Gln Gly Lys Ile Val Glu Ala Val Lys
 180 185 190

Glu Leu Asp Gln Asp Thr Val Phe Ala Leu Gly Asn Tyr Ile Leu Phe
 195 200 205

Lys Gly Lys Trp Lys Lys Pro Phe Asp Pro Glu Asn Thr Glu Glu Ala
 210 215 220

Glu Phe His Val Asp Lys Ser Thr Thr Val Lys Val Pro Met Met Thr
225 230 235 240

Leu Ser Gly Met Leu Asp Val His His Cys Ser Thr Leu Ser Ser Trp
245 250 255

Val Leu Leu Met Asp Tyr Ala Gly Asn Ala Ser Ala Val Phe Leu Leu
260 265 270

Pro Glu Asp Gly Lys Met Gln His Leu Glu Gln Thr Leu Asn Lys Glu
275 280 285

Leu Ile Ser Lys Ile Leu Leu Asn Arg Arg Arg Arg Leu Val Gln Ile
290 295 300

His Ile Pro Arg Leu Ser Ile Ser Gly Glu Tyr Asn Leu Lys Thr Leu
305 310 315 320

Met Ser Pro Leu Gly Ile Thr Arg Ile Phe Asn Asn Gly Ala Asp Leu
325 330 335

Ser Gly Ile Thr Glu Glu Asn Ala Pro Leu Lys Leu Ser Lys Ala Val
340 345 350

His Lys Ala Val Leu Thr Ile Asp Glu Thr Gly Thr Glu Ala Ala Ala
355 360 365

Ala Thr Val Phe Glu Ala Val Pro Met Ser Met Pro Pro Ile Leu Arg
370 375 380

Phe Asp His Pro Phe Leu Phe Ile Ile Phe Glu Glu His Thr Gln Ser
385 390 395 400

Pro Ile Phe Val Gly Lys Val Val Asp Pro Thr His Lys
405 410

<210> 22

<211> 382

<212> PRT

<213> Rattus norvegicus

<400> 22

Ala Pro Ser His Gly Gly Ser Cys Phe Trp Gln Pro Cys Val Ala Trp
1 5 10 15

Pro Pro Ala Ser Trp Leu Arg Met Pro Arg Lys Pro Ile Pro Pro Ser
20 25 30

Arg Thr Arg Val Gln Pro Thr Val Arg Phe Leu Gln Thr Trp Gln Thr
35 40 45

Leu Pro Ser Ala Tyr Thr Gly Ser Trp Ser Ile Asn Pro Ile His Pro
 50 55 60

Thr Ser Ser Ser Pro Leu Ala Ser Pro Gln Pro Ser Pro Cys Ser Pro
 65 70 75 80

Trp Gly Ala Arg Val Thr Leu Ala Asn Arg Phe Arg Ala Trp Ser Ser
 85 90 95

Thr Ser His Arg Tyr Leu Arg Leu Thr Ser Thr Arg Pro Ser Ile Thr
 100 105 110

Ser Ser Lys Leu Ser Thr Gly Gln Thr Val Ser Cys Ser Thr Gln Ala
 115 120 125

Met Ala Ser Leu Ser Thr Arg Ile Ser Trp Trp Arg Ser Phe Trp Lys
 130 135 140

Arg Ser Arg Thr Ile Thr Thr Gln Lys Pro Ser Leu Ser Thr Leu Pro
 145 150 155 160

Thr Gln Lys Arg Leu Arg Lys Leu Met Ile Met Arg Arg Glu Pro Lys
 165 170 175

Glu Arg Leu Ile Asn Ser Trp Thr Lys Thr Arg Phe Leu Pro Trp Ile
 180 185 190

Thr Phe Ser Leu Lys Ala Ser Gly Arg Gly His Ser Ile Leu Ser Thr
 195 200 205

Leu Gly Met Leu Thr Phe Thr Thr Ser Pro Pro Gln Arg Cys Pro Thr
 210 215 220

Ala Trp Ala Cys Leu Thr Cys Thr Ile Ala Ala His Cys Pro Ala Gly
 225 230 235 240

Cys Trp Ile Thr Trp Ala Thr Pro Leu Pro Ser Ser Ser Cys Pro Met
 245 250 255

Met Ala Arg Cys Ser Ile Trp Ser Lys Leu Ser Pro Arg Ile Ser Phe
 260 265 270

Pro Gly Ser Cys Thr Gly Lys Gln Gly Gln Pro Phe Ser Thr Ser Pro
 275 280 285

Asn Cys Pro Ser Leu Glu Pro Ile Thr Arg His Ser Ala His Trp Ala
 290 295 300

Ser Pro Gly Ser Ser Thr Met Met Leu Ile Ser Leu Glu Ser Gln Arg
305 310 315 320

Met Pro Pro Ser Leu Ala Arg Leu Cys Ile Arg Leu Cys Pro Met Arg
325 330 335

Gly Glu Gln Arg Leu Gln Glu Pro Leu Trp Trp Arg Pro Ser Pro Cys
340 345 350

Leu Cys Pro Leu Lys Ser Ser Thr Thr Leu Ser Phe Ser Leu Asn Gln
355 360 365

Lys Leu Arg Ala Pro Ser Leu Trp Glu Lys Ile Pro His Val
370 375 380

<210> 23
<211> 417
<212> PRT
<213> Homo sapiens

<400> 23

Met Pro Ser Ser Val Ser Trp Gly Ile Leu Leu Ala Gly Leu Cys Cys
1 5 10 15

Leu Val Pro Val Ser Leu Ala Glu Asp Pro Gln Gly Asp Ala Ala Gln
20 25 30

Lys Thr Asp Thr Ser His His Asp Gln Asp His Pro Thr Phe Asn Lys
35 40 45

Ile Thr Pro Asn Leu Ala Glu Phe Ala Phe Ser Leu Tyr Arg Gln Leu
50 55 60

Ala His Gln Ser Asn Ser Thr Asn Ile Phe Phe Ser Pro Val Ser Ile
65 70 75 80

Ala Thr Ala Phe Ala Met Leu Ser Leu Gly Thr Lys Ala Asp Thr His
85 90 95

Asp Glu Ile Leu Glu Gly Leu Asn Phe Asn Leu Thr Glu Ile Pro Glu
100 105 110

Ala Gln Ile His Glu Gly Phe Gln Glu Leu Leu Arg Thr Leu Asn Gln
115 120 125

Pro Asp Ser Gln Leu Gln Leu Thr Thr Gly Asn Gly Leu Phe Leu Ser
130 135 140

Glu Gly Leu Lys Leu Val Asp Lys Phe Leu Glu Asp Val Lys Lys Leu

145		150		155		160									
Tyr	His	Ser	Glu	Ala 165	Phe	Thr	Val	Asn	Phe 170	Gly	Asp	His	Glu	Glu 175	Ala
Lys	Lys	Gln	Ile 180	Asn	Asp	Tyr	Val	Glu 185	Lys	Gly	Thr	Gln	Gly 190	Lys	Ile
Val	Asp	Leu 195	Val	Lys	Glu	Leu	Asp 200	Arg	Asp	Thr	Val	Phe 205	Ala	Leu	Val
Asn	Tyr 210	Ile	Phe	Phe	Lys	Gly 215	Lys	Trp	Glu	Arg	Pro 220	Phe	Glu	Val	Lys
Asp 225	Thr	Glu	Asp	Glu	Asp 230	Phe	His	Val	Asp	Gln 235	Val	Thr	Thr	Val	Lys 240
Val	Pro	Met	Met	Lys 245	Arg	Leu	Gly	Met	Phe 250	Asn	Ile	Gln	His	Cys 255	Lys
Lys	Leu	Ser	Ser 260	Trp	Val	Leu	Leu	Met 265	Lys	Tyr	Leu	Gly	Asn 270	Ala	Thr
Ala	Ile	Phe 275	Phe	Leu	Pro	Asp	Glu 280	Gly	Lys	Leu	Gln	His 285	Leu	Glu	Asn
Glu 290	Leu	Thr	His	Asp	Ile	Ile 295	Thr	Lys	Phe	Leu	Glu 300	Asn	Glu	Asp	Arg
Arg 305	Ser	Ala	Ser	Leu	His 310	Leu	Pro	Lys	Leu	Ser 315	Ile	Thr	Gly	Thr	Tyr 320
Asp	Leu	Lys	Ser	Val 325	Leu	Gly	Gln	Leu	Gly 330	Ile	Thr	Lys	Val	Phe 335	Ser
Asn	Gly	Ala	Asp 340	Leu	Ser	Gly	Val	Thr 345	Glu	Glu	Ala	Pro	Leu 350	Lys	Leu
Ser	Lys	Ala 355	Val	His	Lys	Ala	Val 360	Leu	Thr	Ile	Asp	Glu 365	Lys	Gly	Thr
Glu 370	Ala	Ala	Gly	Ala	Met	Phe 375	Leu	Glu	Ala	Ile	Pro 380	Met	Ser	Ile	Pro
Pro 385	Glu	Val	Lys	Phe	Asn 390	Lys	Pro	Phe	Val	Phe 395	Leu	Met	Ile	Glu	Gln 400
Asn	Thr	Lys	Ser	Pro 405	Leu	Phe	Met	Gly	Lys 410	Val	Val	Asn	Pro	Thr 415	Gln

Lys

<210> 24
<211> 416
<212> PRT
<213> Ovis aries

<400> 24

Met Ala Leu Ser Ile Thr Arg Gly Leu Leu Leu Leu Ala Ala Leu Cys
1 5 10 15

Cys Leu Ala Pro Thr Ser Leu Ala Gly Val Leu Gln Gly His Ala Val
20 25 30

Gln Glu Thr Asp Asp Thr Ala His Gln Glu Ala Ala Cys His Lys Ile
35 40 45

Ala Pro Asn Leu Ala Asn Phe Ala Phe Ser Ile Tyr His Lys Leu Ala
50 55 60

His Gln Ser Asn Thr Ser Asn Ile Phe Phe Ser Pro Val Ser Ile Ala
65 70 75 80

Ser Ala Phe Ala Met Leu Ser Leu Gly Ala Lys Gly Asn Thr His Thr
85 90 95

Glu Ile Leu Glu Gly Leu Gly Phe Asn Leu Thr Glu Leu Ala Glu Ala
100 105 110

Glu Ile His Lys Gly Phe Gln His Leu Leu His Thr Leu Asn Gln Pro
115 120 125

Asn His Gln Leu Gln Leu Thr Thr Gly Asn Gly Leu Phe Ile Asn Glu
130 135 140

Ser Ala Lys Leu Val Asp Thr Phe Leu Glu Asp Val Lys Asn Leu His
145 150 155 160

His Ser Lys Ala Phe Ser Ile Asn Phe Arg Asp Ala Glu Glu Ala Lys
165 170 175

Lys Lys Ile Asn Asp Tyr Val Glu Lys Gly Ser His Gly Lys Ile Val
180 185 190

Asp Leu Val Lys Asp Leu Asp Gln Asp Thr Val Phe Ala Leu Val Asn
195 200 205

Tyr Ile Ser Phe Lys Gly Lys Trp Glu Lys Pro Phe Glu Val Glu His
210 215 220

Thr Thr Glu Arg Asp Phe His Val Asn Glu Gln Thr Thr Val Lys Val
225 230 235 240

Pro Met Met Asn Arg Leu Gly Met Phe Asp Leu His Tyr Cys Asp Lys
245 250 255

Leu Ala Ser Trp Val Leu Leu Leu Asp Tyr Val Gly Asn Val Thr Ala
260 265 270

Cys Phe Ile Leu Pro Asp Leu Gly Lys Leu Gln Gln Leu Glu Asp Lys
275 280 285

Leu Asn Asn Glu Leu Leu Ala Lys Phe Leu Glu Lys Lys Tyr Ala Ser
290 295 300

Ser Ala Asn Leu His Leu Pro Lys Leu Ser Ile Ser Glu Thr Tyr Asp
305 310 315 320

Leu Lys Thr Val Leu Gly Glu Leu Gly Ile Asn Arg Val Phe Ser Asn
325 330 335

Gly Ala Asp Leu Ser Gly Ile Thr Glu Glu Gln Pro Leu Met Val Ser
340 345 350

Lys Ala Leu His Lys Ala Ala Leu Thr Ile Asp Glu Lys Gly Thr Glu
355 360 365

Ala Ala Gly Ala Thr Phe Leu Glu Ala Ile Pro Met Ser Leu Pro Pro
370 375 380

Asp Val Glu Phe Asn Arg Pro Phe Leu Cys Ile Leu Tyr Asp Arg Asn
385 390 395 400

Thr Lys Ser Pro Leu Phe Val Gly Lys Val Val Asn Pro Thr Gln Ala
405 410 415

<210> 25
<211> 353
<212> PRT
<213> Mesocricetus auratus

<400> 25

Met Lys Pro Ser Ile Ser Trp Gly Ile Leu Leu Leu Ala Gly Leu Cys
1 5 10 15

Cys Leu Val Pro Ser Phe Leu Ala Glu Asp Ala Gln Glu Thr Asp Ala
20 25 30

Ser Lys Gln Asp Gln Glu His Gln Ala Cys Cys Lys Ile Ala Pro Asn
 35 40 45
 Leu Ala Asp Phe Ser Phe Asn His Asn Leu Leu Gln Thr Phe Asn Arg
 50 55 60
 Pro Asp Asn Glu Leu Gln Leu Thr Thr Gly Asn Gly Leu Phe Ile His
 65 70 75 80
 Asn Asn Leu Lys Leu Val Asp Lys Phe Leu Glu Glu Val Lys Asn Asp
 85 90 95
 Tyr His Ser Glu Ala Phe Ser Val Asn Phe Thr Asp Ser Glu Glu Ala
 100 105 110
 Lys Lys Val Ile Asn Gly Phe Val Glu Lys Gly Thr Gln Gly Lys Ile
 115 120 125
 Val Asp Leu Val Lys Asp Leu Asp Lys Asp Thr Val Leu Ala Leu Val
 130 135 140
 Asn Tyr Ile Phe Phe Lys Gly Lys Trp Lys Lys Pro Phe Asp Ala Asp
 145 150 155 160
 Asn Thr Glu Glu Ala Asp Phe His Val Asp Lys Thr Thr Thr Val Lys
 165 170 175
 Val Pro Met Met Ser Arg Leu Gly Met Phe Asp Val His Tyr Val Ser
 180 185 190
 Thr Leu Ser Ser Trp Val Leu Leu Met Asp Tyr Leu Gly Asn Ala Thr
 195 200 205
 Ala Ile Phe Ile Leu Pro Asp Asp Gly Lys Met Gln His Leu Glu Gln
 210 215 220
 Thr Leu Asn Lys Glu Ile Ile Gly Lys Phe Leu Lys Asp Arg His Thr
 225 230 235 240
 Arg Ser Ala Asn Val His Phe Pro Lys Leu Ser Ile Ser Gly Thr Tyr
 245 250 255
 Asn Leu Lys Thr Ala Leu Asp Pro Leu Gly Ile Thr Gln Val Phe Ser
 260 265 270
 Asn Gly Ala Asp Leu Ser Gly Ile Thr Glu Asp Val Pro Leu Lys Leu
 275 280 285

Gly Lys Ala Val His Lys Ala Val Leu Thr Ile Asp Glu Arg Gly Thr
 290 295 300
 Glu Ala Ala Gly Ala Thr Phe Met Glu Ile Ile Pro Met Ser Val Pro
 305 310 315
 Pro Glu Val Asn Phe Asn Ser Pro Phe Ile Ala Ile Ile Tyr Asp Arg
 325 330 335
 Gln Thr Ala Lys Ser Pro Leu Phe Val Gly Lys Val Val Asp Pro Thr
 340 345 350

Arg

<210> 26
 <211> 413
 <212> PRT
 <213> Oryctolagus cuniculus
 <400> 26

Met Pro Pro Ser Val Ser Arg Ala Leu Leu Leu Leu Ala Gly Leu Gly
 1 5 10 15
 Cys Leu Leu Pro Gly Phe Leu Ala Asp Glu Ala Gln Glu Thr Ala Val
 20 25 30
 Ser Ser His Glu Gln Asp Arg Pro Ala Cys His Arg Ile Ala Pro Ser
 35 40 45
 Leu Val Glu Phe Ala Leu Ser Leu Tyr Arg Glu Val Ala Arg Glu Ser
 50 55 60
 Asn Thr Thr Asn Ile Phe Phe Ser Pro Val Ser Ile Ala Leu Ala Phe
 65 70 75 80
 Ala Met Leu Ser Leu Gly Ala Lys Gly Asp Thr His Thr Gln Val Leu
 85 90 95
 Glu Gly Leu Lys Phe Asn Leu Thr Glu Thr Ala Glu Ala Gln Ile His
 100 105 110
 Asp Gly Phe Arg His Leu Leu His Thr Val Asn Arg Pro Asp Ser Glu
 115 120 125
 Leu Gln Leu Ala Ala Gly Asn Ala Leu Val Val Ser Glu Asn Leu Lys
 130 135 140
 Leu Gln His Lys Phe Leu Glu Asp Ala Lys Asn Leu Tyr Gln Ser Glu

145		150		155		160
Ala Phe Leu Val	Asp 165	Phe Arg Asp Pro	Glu 170	Gln Ala Lys Thr	Lys 175	Ile
Asn Ser His Val	Glu 180	Lys Gly Thr Arg 185	Gly Lys Ile Val	Asp 190	Leu Val	
Gln Glu Leu	Asp 195	Ala Arg Thr Leu 200	Leu Ala Leu Val	Asn 205	Tyr Val Phe	
Phe Lys 210	Gly Lys Trp Glu	Lys 215	Pro Phe Glu Pro	Glu 220	Asn Thr Lys Glu	
Glu 225	Asp Phe His Val	Asp 230	Ala Thr Thr Thr	Val 235	Arg Val Pro Met	Met 240
Ser Arg Leu Gly	Met 245	Tyr Val Met Phe	His 250	Cys Ser Thr Leu	Ala 255	Ser
Thr Val Val	Leu 260	Met Asp Tyr Lys	Gly 265	Asn Ala Thr Ala	Leu 270	Phe Leu
Leu Pro Asp	Glu 275	Gly Lys Leu	Gln 280	His Leu Glu His	Thr 285	Leu Thr Thr
Glu Leu 290	Ile Ala Lys Phe	Leu 295	Ala Lys Ser Ser	Phe 300	Arg Ser Val Thr	
Val 305	Arg Phe Pro Lys	Leu 310	Ser Ile Ser Gly	Thr 315	Tyr Asp Leu Lys	Pro 320
Leu Leu Gly Lys	Leu 325	Gly Ile Thr Gln	Val 330	Phe Ser Asp Asn	Ala 335	Asp
Leu Ser Gly	Ile 340	Thr Glu Gln Glu	Ala 345	Leu Lys Val Ser	Gln 350	Ala Leu
His Lys Val	Val 355	Leu Thr Ile Asp	Glu 360	Arg Gly Thr Glu	Ala 365	Ala Gly
Ala Thr 370	Phe Val Glu Tyr	Val 375	Leu Tyr Ser Met	Pro 380	Gln Arg Val Thr	
Phe 385	Asp Arg Pro Phe	Leu 390	Phe Val Ile Tyr	Ser 395	His Glu Val Lys	Ser 400
Pro Leu Phe Val	Gly 405	Lys Val Val Asp	Pro 410	Thr Gln His		

<210> 27
 <211> 391
 <212> PRT
 <213> Artificial

<220>
 <223> Consensus Sequence

<400> 27

Met Pro Ser Ile Ser Gly Leu Leu Leu Leu Ala Gly Leu Cys Cys Leu
 1 5 10 15

Val Pro Ser Phe Leu Ala Glu Asp Gln Glu Thr Asp Ser His Asp Gln
 20 25 30

Asp Pro Ala Cys His Lys Ile Ala Pro Asn Leu Ala Asp Phe Ala Phe
 35 40 45

Ser Leu Tyr Arg Glu Leu Ala His Gln Ser Asn Thr Thr Asn Ile Phe
 50 55 60

Phe Ser Pro Val Ser Ile Ala Thr Ala Phe Ala Met Leu Ser Leu Gly
 65 70 75 80

Thr Lys Gly Asp Thr His Thr Gln Ile Leu Glu Gly Leu Phe Asn Leu
 85 90 95

Thr Glu Thr Ala Glu Ala Glu Ile His Lys Gly Phe Gln His Leu Leu
 100 105 110

Thr Leu Asn Arg Pro Asp Ser Glu Leu Gln Leu Thr Thr Gly Asn Gly
 115 120 125

Leu Phe Ile Ser Glu Leu Lys Leu Val Asp Lys Phe Leu Glu Asp Val
 130 135 140

Lys Asn Leu Tyr His Ser Glu Ala Phe Ser Val Asn Phe Asp Ser Glu
 145 150 155 160

Glu Ala Lys Lys Ile Asn Asp Phe Val Glu Lys Gly Thr Gln Gly Lys
 165 170 175

Ile Val Asp Leu Val Lys Glu Leu Asp Lys Asp Thr Val Leu Ala Leu
 180 185 190

Val Asn Tyr Ile Phe Phe Lys Gly Lys Trp Glu Lys Pro Phe Glu Val
 195 200 205

Glu Asn Thr Glu Glu Asp Phe His Val Asp Thr Thr Thr Val Lys Val

210 215 220
 Pro Met Met Ser Arg Leu Gly Met Phe Asp Val His His Cys Ser Thr
 225 230 235 240
 Leu Ser Ser Trp Val Leu Leu Met Asp Tyr Leu Gly Asn Ala Thr Ala
 245 250 255
 Ile Phe Ile Leu Pro Asp Asp Gly Lys Leu Gln His Leu Glu Gln Thr
 260 265 270
 Leu Asn Glu Leu Ile Ala Lys Phe Leu Asn Arg Arg Ser Ala Ser Leu
 275 280 285
 His Leu Pro Lys Leu Ser Ile Ser Gly Thr Tyr Asp Leu Lys Thr Leu
 290 295 300
 Leu Gly Leu Gly Ile Thr Arg Val Phe Ser Asn Gly Ala Asp Leu Ser
 305 310 315
 Gly Ile Thr Glu Glu Pro Leu Lys Leu Ser Lys Ala Val His Lys Ala
 325 330 335
 Val Leu Thr Ile Asp Glu Lys Gly Thr Glu Ala Ala Gly Ala Thr Phe
 340 345 350
 Leu Glu Ala Ile Pro Met Ser Met Pro Pro Glu Val Phe Asn Arg Pro
 355 360 365
 Phe Leu Phe Ile Ile Tyr Asp Asn Thr Lys Ser Pro Leu Phe Val Gly
 370 375 380
 Lys Val Val Asp Pro Thr Gln
 385 390

<210> 28
 <211> 98
 <212> PRT
 <213> Mus musculus

<400> 28

Met Pro Thr Glu Thr Glu Arg Cys Ile Glu Ser Leu Ile Ala Val Phe
 1 5 10 15
 Gln Lys Tyr Ser Gly Lys Asp Gly Asn Asn Thr Gln Leu Ser Lys Thr
 20 25 30
 Glu Phe Leu Ser Phe Met Asn Thr Glu Leu Ala Ala Phe Thr Lys Asn
 35 40 45

Gln Lys Asp Pro Gly Val Leu Asp Arg Met Met Lys Lys Leu Asp Leu
50 55 60

Asn Cys Asp Gly Gln Leu Asp Phe Gln Glu Phe Leu Asn Leu Ile Gly
65 70 75 80

Gly Leu Ala Ile Ala Cys His Asp Ser Phe Ile Gln Thr Ser Gln Lys
85 90 95

Arg Ile

<210> 29
<211> 90
<212> PRT
<213> Canis familiaris

<400> 29

Thr Arg Ser Leu Ile Ala Val Phe Gln Lys Phe Ala Gly Lys Glu Gly
1 5 10 15

Asn Asn Cys Thr Leu Ser Lys Thr Glu Phe Leu Thr Phe Met Asn Thr
20 25 30

Glu Leu Ala Ala Phe Thr Lys Asn Gln Lys Asp Pro Gly Val Leu Asp
35 40 45

Arg Met Met Lys Lys Leu Asp Leu Asn Ser Asp Gly Gln Leu Asp Phe
50 55 60

Gln Glu Phe Leu Asn Leu Ile Gly Gly Met Ala Ile Ala Cys His Asp
65 70 75 80

Ser Phe Thr Arg Ser Pro His Phe Arg Lys
85 90

<210> 30
<211> 61
<212> PRT
<213> Oryctolagus cuniculus

<400> 30

Phe Ala Val Phe Gln Lys Tyr Ala Gly Lys Asp Gly His Ser Val Thr
1 5 10 15

Leu Ser Lys Thr Glu Phe Leu Ser Phe Met Asn Thr Glu Leu Ala Ala
20 25 30

Phe Thr Lys Asn Gln Lys Asp Pro Gly Val Leu Asp Arg Met Met Lys
35 40 45

Lys Leu Asp Leu Asn Ser Asp Gly Gln Leu Asp Phe Gln
50 55 60

<210> 31
<211> 93
<212> PRT
<213> Homo sapiens
<400> 31

Met Leu Thr Glu Leu Glu Lys Ala Leu Asn Ser Ile Ile Asp Val Tyr
1 5 10 15

His Lys Tyr Ser Leu Ile Lys Gly Asn Phe His Ala Val Tyr Arg Asp
20 25 30

Asp Leu Lys Lys Leu Leu Glu Thr Glu Cys Pro Gln Tyr Ile Arg Lys
35 40 45

Lys Gly Ala Asp Val Trp Phe Lys Glu Leu Asp Ile Asn Thr Asp Gly
50 55 60

Ala Val Asn Phe Gln Glu Phe Leu Ile Leu Val Ile Lys Met Gly Val
65 70 75 80

Ala Ala His Lys Lys Ser His Glu Glu Ser His Lys Glu
85 90

<210> 32
<211> 89
<212> PRT
<213> Rattus norvegicus
<400> 32

Met Ala Thr Glu Leu Glu Lys Ala Leu Ser Asn Val Ile Glu Val Tyr
1 5 10 15

His Asn Tyr Ser Gly Ile Lys Gly Asn His His Ala Leu Tyr Arg Asp
20 25 30

Asp Phe Arg Lys Met Val Thr Thr Glu Cys Pro Gln Phe Val Gln Asn
35 40 45

Lys Asn Thr Glu Ser Leu Phe Lys Glu Leu Asp Val Asn Ser Asp Asn
50 55 60

Ala Ile Asn Phe Glu Glu Phe Leu Ala Leu Val Ile Arg Val Gly Val
65 70 75 80

Ala Ala His Lys Asp Ser His Lys Glu

<210> 33
 <211> 99
 <212> PRT
 <213> Sus scrofa

<400> 33

Met Ala Lys Arg Pro Thr Glu Thr Glu Arg Cys Ile Glu Ser Leu Ile
 1 5 10 15

Ala Ile Phe Gln Lys His Ala Gly Arg Asp Gly Asn Asn Thr Lys Ile
 20 25 30

Ser Lys Thr Glu Phe Leu Ile Phe Met Asn Thr Glu Leu Ala Ala Phe
 35 40 45

Thr Gln Asn Gln Lys Asp Pro Gly Val Leu Asp Arg Met Met Lys Lys
 50 55 60

Leu Asp Leu Asp Ser Asp Gly Gln Leu Asp Phe Gln Glu Phe Leu Asn
 65 70 75 80

Leu Ile Gly Gly Leu Ala Ile Ala Cys His Asp Ser Phe Ile Lys Ser
 85 90 95

Thr Gln Lys

<210> 34
 <211> 88
 <212> PRT
 <213> Artificial

<220>
 <223> Consensus Sequence

<400> 34

Met Thr Glu Glu Lys Ile Ser Leu Ile Ala Val Phe Gln Lys Tyr Ala
 1 5 10 15

Gly Lys Asp Gly Asn Asn Leu Ser Lys Thr Glu Phe Leu Ser Phe Met
 20 25 30

Asn Thr Glu Leu Ala Ala Phe Thr Lys Asn Gln Lys Asp Pro Gly Val
 35 40 45

Leu Asp Arg Met Met Lys Lys Leu Asp Leu Asn Ser Asp Gly Gln Leu
 50 55 60

Asp Phe Gln Glu Phe Leu Asn Leu Ile Gly Gly Leu Ala Ile Ala Cys

65

70

75

80

His Asp Ser Phe Lys Ser Ser Lys
85